

Air Quality Trends by City

1990 - 2009

Data provided by the U.S. Environmental Protection Agency (EPA)
<http://www.epa.gov/airtrends/index.html>

EPA Data Notes:

- Data from exceptional events are not included.
- These trends are based on sites having an adequate record of monitoring data during the trend period.
- The values shown are the composite averages among these trend sites.
- Units for CO, NO₂, Ozone, and SO₂ are ppm. Units for Pb, PM10, and PM_{2.5} are µg/m³.
- The 4th max for ozone is based on 8-hour data.
- Weather conditions influence emissions and air quality. EPA has developed statistical approaches to account for weather's influence on ozone and fine particles. While these approaches do not change the quality of air we breathe, they do help us understand how well emission reduction programs are working. More information on trends in ozone adjusted for weather conditions can be found at <http://www.epa.gov/airtrends/weather.html>.

EPA creates air quality trends using measurements from monitors located across the country. The table below shows that air quality based on concentrations of the common pollutants has improved nationally since 1980.

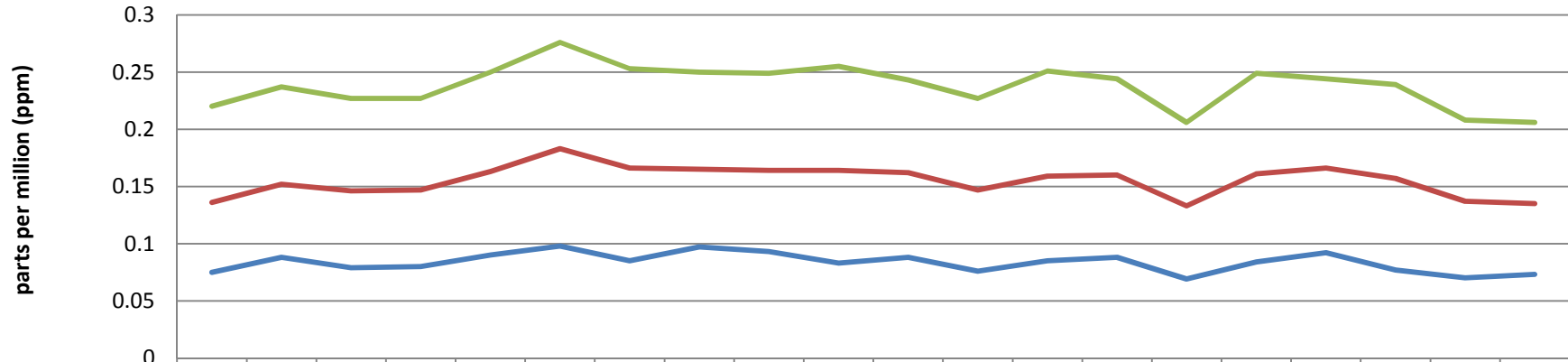
Percent Change in Air Quality

	1980 vs 2009	1990 vs 2009
Carbon Monoxide (CO)	-80	-70
Ozone (O3) (8-hr)	-30	-21
Lead (Pb)	-93	-73
Nitrogen Dioxide (NO2)	-48	-40
PM10 (24-hr)	---	-38
PM2.5 (annual) ²	---	-27
PM2.5 (24-hr) ²	---	-28
Sulfur Dioxide (SO2)	-76	-65

Notes:

1. --- Trend data not available
2. PM2.5 air quality based on data since 2000
3. Negative numbers indicate improvements in air quality

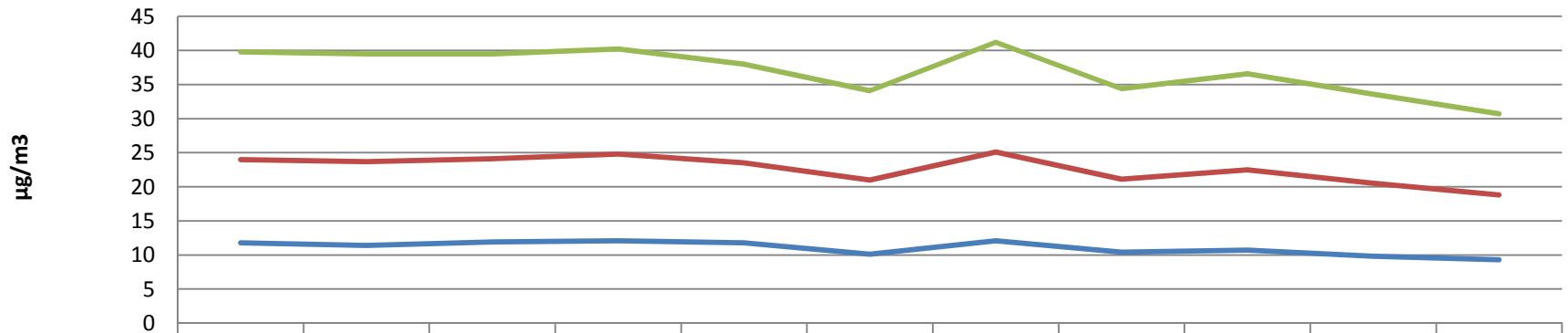
Ozone - 4th Max (based on 8-hour data) 1990-2009



	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
— St. Louis, MO-IL	0.084	0.085	0.081	0.08	0.087	0.093	0.087	0.085	0.085	0.091	0.081	0.08	0.092	0.084	0.073	0.088	0.078	0.082	0.071	0.071
— Springfield, MO	0.061	0.064	0.067	0.067	0.073	0.085	0.081	0.068	0.071	0.081	0.074	0.071	0.074	0.072	0.064	0.077	0.074	0.08	0.067	0.062
— Kansas City, MO-KS	0.075	0.088	0.079	0.08	0.09	0.098	0.085	0.097	0.093	0.083	0.088	0.076	0.085	0.088	0.069	0.084	0.092	0.077	0.07	0.073

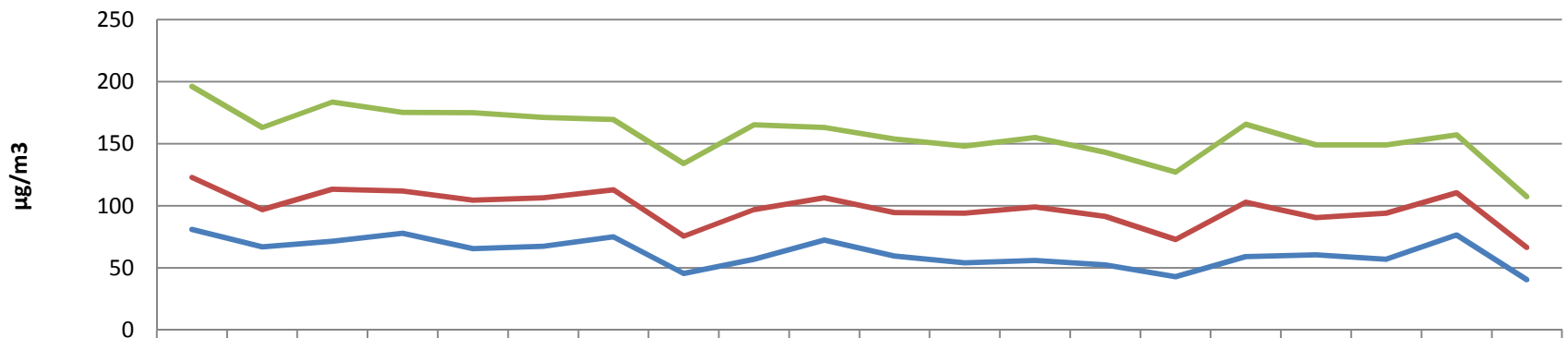
Please Note: In 2008, EPA strengthened the national standards for 8-hour ozone to 0.075 ppm and the national standards for lead to 0.15 µg/m³.

Particulate Matter 2.5 - Weighted Annual Mean 1999-2009



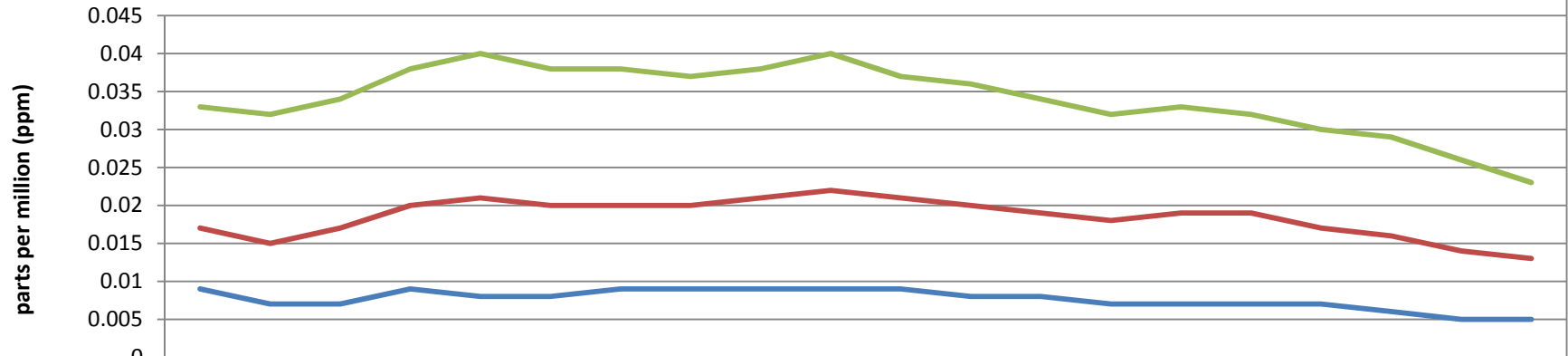
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
— St. Louis, MO-IL	15.8	15.8	15.4	15.4	14.5	13.1	16.1	13.3	14.1	13.1	11.9
— Springfield, MO	12.2	12.3	12.2	12.7	11.7	10.9	13	10.7	11.8	10.7	9.5
— Kansas City, MO-KS	11.8	11.4	11.9	12.1	11.8	10.1	12.1	10.4	10.7	9.8	9.3

Particulate Matter 10 - 2nd Max 1990-2009



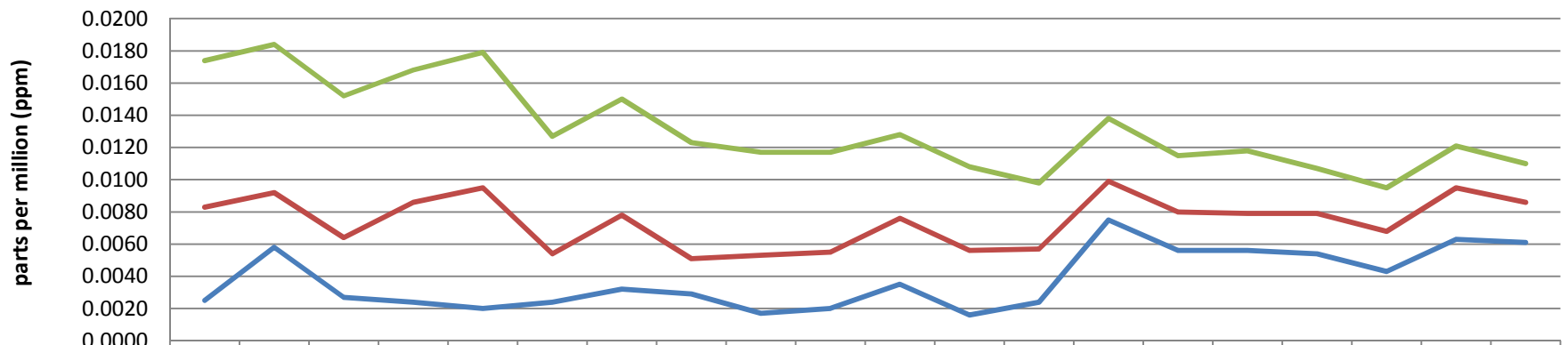
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
— St. Louis, MO-IL	73.2	66.2	70.2	63.4	70.6	64.8	56.6	58.6	68.4	56.7	59.3	54.2	56	51.6	54.2	62.8	58.6	55.2	46.6	41
— Springfield, MO	42	30	42	34	39	39	38	30	40	34	35	40	43	39	30	44	30	37	34	26
— Kansas City, MO-KS	81	67	71.5	78	65.5	67.5	75	45.5	57	72.5	59.5	54	56	52.5	43	59	60.5	57	76.5	40.5

Nitrogen Dioxide - Annual Mean 1990-2009



	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
— St. Louis, MO-IL	0.016	0.017	0.017	0.018	0.019	0.018	0.018	0.017	0.017	0.018	0.016	0.016	0.015	0.014	0.014	0.013	0.013	0.013	0.012	0.01
— Springfield, MO	0.008	0.008	0.01	0.011	0.013	0.012	0.011	0.011	0.012	0.013	0.012	0.012	0.011	0.011	0.012	0.012	0.01	0.01	0.009	0.008
— Kansas City, MO-KS	0.009	0.007	0.007	0.009	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.005	0.005

Sulfur Dioxide - Annual Mean 1990-2009



	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
— St. Louis, MO-IL	0.0091	0.0092	0.0088	0.0082	0.0084	0.0073	0.0072	0.0072	0.0064	0.0062	0.0052	0.0052	0.0041	0.0039	0.0035	0.0039	0.0028	0.0027	0.0026	0.0024
— Springfield, MO	0.0058	0.0034	0.0037	0.0062	0.0075	0.0030	0.0046	0.0022	0.0036	0.0035	0.0041	0.0040	0.0033	0.0024	0.0024	0.0023	0.0025	0.0025	0.0032	0.0025
— Kansas City, MO-KS	0.0025	0.0058	0.0027	0.0024	0.0020	0.0024	0.0032	0.0029	0.0017	0.0020	0.0035	0.0016	0.0024	0.0075	0.0056	0.0056	0.0054	0.0043	0.0063	0.0061